

Total No. of Printed Pages—4

HS/XII/V/PF/PNP/Paper–V/23

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POULTRY NUTRITION AND PHYSIOLOGY

(Vocational Course)

Paper—V

Full Marks : 45

Time : 2 hours

The figures in the margin indicate full marks for the questions

1. Choose the correct answer from the options given : 1×5=5

(a) Egg albumen is formed in

- (i) infundibulum
- (ii) isthmus
- (iii) magnum
- (iv) uterus

(b) Eggshell is mainly composed of

- (i) carbohydrate
- (ii) protein
- (iii) calcium phosphate
- (iv) calcium carbonate

(2)

(c) The approximate length of oviduct in laying hen is

(i) 33 cm

(ii) 10 cm

(iii) 76 cm

(iv) 96 cm

(d) Chalaziferous layer is also known as

(i) outer thick white

(ii) outer thin white

(iii) inner thick white

(iv) inner thin white

(e) The time taken for the formation of an egg is

(i) 18 hours

(ii) 21 hours

(iii) 25 hours

(iv) 28 hours

(3)

2. Write True (T) or False (F) against each statement : 1×5=5

- (a) Air cell is present at the broader end of egg.
- (b) In poultry, only right ovary is developed and functional at laying stage.
- (c) Egg is very rich in iron and vitamin C.
- (d) Egg white is mainly composed of carbohydrate.
- (e) Air cell is an indicator of freshness of egg.

3. Fill in the blanks with appropriate word : 1×5=5

- (a) Relatively speaking in case of poultry, little digestion takes place until the feed reaches the ____.
- (b) The most critical amino acids in layer diets are methionine and ____.
- (c) Feed should not be offered more than ____ level of the capacity of feeder to avoid wastage.
- (d) The average protein content of chicken egg is ____%.
- (e) The average fat content of chicken egg is ____%.

(4)

4. Write the definition of the following terms : 1×5=5
- (a) Ovulation
 - (b) Fertilization
 - (c) Oviposition
 - (d) Proximate principle of food
 - (e) Protective principle of food
5. What are the digestive glands of poultry? Write two lines about each of them. 3
6. Write two feedstuffs of each nutrient of the following : 2×3=6
- (a) Carbohydrates
 - (b) Proteins
 - (c) Minerals
7. What are the various conditions on which the variation of energy contents of poultry feed depends? Describe briefly. 5
8. Describe briefly about the different methods of feeding poultry. 5
9. What are the nutrients with which poultry feeds are generally composed? Describe briefly about each one of them. 6

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